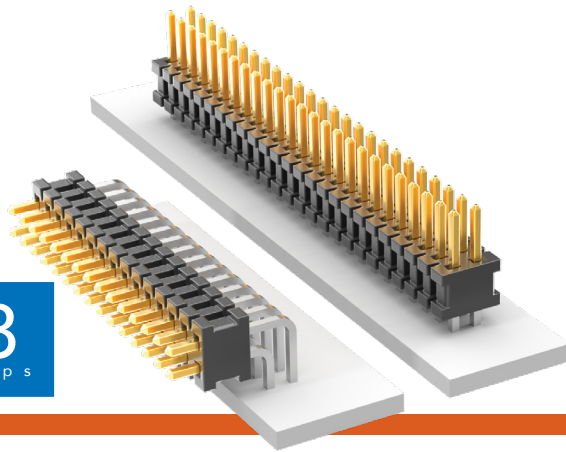


# THROUGH-HOLE MICRO HEADER

(1.27 mm) .050" PITCH • FTSH SERIES



## FTSH

**Board Mates:**

CLP, FLE

**Cable Mates:**

FFSD, FFTP

### SPECIFICATIONS

**Insulator Material:**

Black Liquid Crystal Polymer

**Terminal Material:**

Phosphor Bronze

**Plating:**

Sn or Au over 50 μ" (1.27 μm) Ni

**Operating Temp Range:**

-55 °C to +125 °C

**Current Rating (FTSH/CLP):**

3.4 A per pin  
(2 pins powered)

**Current Rating (FTSH/FLE):**

2.9 A per pin  
(2 pins powered)

**Voltage Rating:**

280 VAC/396 VDC

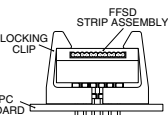
### PROCESSING

**Lead-Free Solderable:**

Yes

### LOCKING CLIP

For single mating cycle with the FFSD. Specify -LC after tail option. Lead Style -01 and 10 pins/row minimum. 5-9 pins/row not available in combination with keying shroud (-K).



FTSH	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	OPTION	TAIL OPTION	OTHER OPTIONS
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02 thru 50

Specify LEAD STYLE from chart

**-F**  
= Gold flash on post, Matte Tin on tail

**-L**  
= 10 μ" (0.25 μm) Gold on post, Matte Tin on tail

Leave blank for Right-angle

**-"XXX"**  
= Polarized Position (Specify position of omitted pin) (Not available with -EX options)

Leave blank for straight tail

**-RA**  
= Right-angle

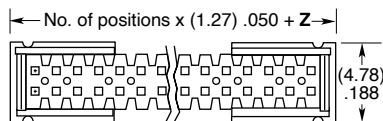
**-ES**  
= End Shroud (Style -02 & -03) 9 pins/row minimum

**-EP**  
= End Shroud with Guide Post (Style -02 & -03) 9 pins/row minimum

**-EL**  
= End Shroud with Board Lock (Style -02 & -03) 9 pins/row minimum

**-EJ**  
= Ejector Shroud (Style -01 only) 10 pins/row minimum 25 pins/row maximum -RA not available

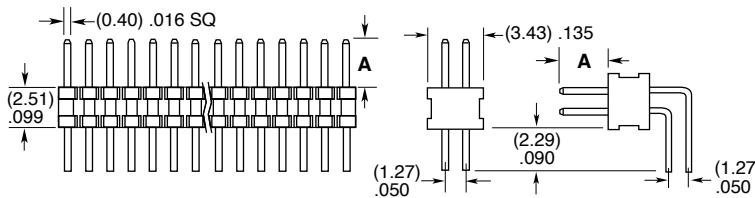
**-K**  
= Keying Shroud for mating with FFSD (Style -01 only, 05 thru 25 pins/row only. 13, 17, 20 & 25 only with -EJ option)



-EX OPTION SHOWN



OPTION	Z
-ES	(1.55) .061
-EJ	(15.77) .621
-EP	(5.87) .231
-EL	((6.53) .257



LEAD STYLE	A	MATES WITH
-01	(3.05) .120	FFSD
-02	(1.91) .075	FLE
-03	(1.65) .065	CLP-D
-04	(3.81) .150	N/A

### ALSO AVAILABLE

Contact Samtec

Molded Pick & Place pads

Other platings

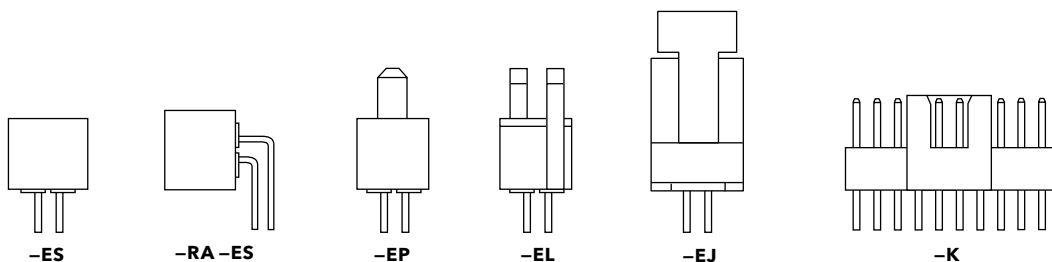


**Notes:**

Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit [samtec.com/set](http://samtec.com/set)

Some sizes, styles and options are non-standard, non-returnable.

See SFM/TFM for positive alignment feature.



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[FTSH-113-01-F-D-K](#) [FTSH-110-01-L-D-K](#) [FTSH-113-01-L-D-K](#) [FTSH-105-01-L-D-K](#) [FTSH-120-04-L-D-RA](#) [FTSH-105-01-L-D](#) [FTSH-105-01-F-D-K](#) [FTSH-110-01-L-D](#) [FTSH-105-01-L-D-RA-K](#) [FTSH-130-01-L-D](#) [FTSH-125-04-L-D-RA](#) [FTSH-105-01-F-D](#) [FTSH-106-01-L-D](#) [FTSH-110-01-L-D-EJ](#) [FTSH-113-04-L-D-RA](#) [FTSH-120-03-F-D](#) [FTSH-110-02-L-D-RA](#) [FTSH-111-01-L-D](#) [FTSH-118-01-F-D](#) [FTSH-118-02-F-D-RA](#) [FTSH-118-04-L-D](#) [FTSH-104-03-F-D](#) [FTSH-106-01-L-D-RA](#) [FTSH-113-01-F-D-RA](#) [FTSH-123-01-L-D](#) [FTSH-139-01-L-D-RA](#) [FTSH-106-01-F-D-K](#) [FTSH-120-01-F-D-K](#) [FTSH-109-01-L-D](#) [FTSH-114-01-F-D](#) [FTSH-114-02-F-D](#) [FTSH-104-02-F-D](#) [FTSH-110-01-F-D-RA-K](#) [FTSH-106-02-F-D](#) [FTSH-110-01-F-D-K](#) [FTSH-128-02-L-D](#) [FTSH-106-02-F-D-RA](#) [FTSH-108-01-L-D](#) [FTSH-119-01-F-D](#) [FTSH-110-01-L-D-RA](#) [FTSH-112-01-L-D-RA](#) [FTSH-140-04-L-D](#) [FTSH-125-01-F-D](#) [FTSH-117-01-L-D](#) [FTSH-116-01-L-D](#) [FTSH-107-01-L-D](#) [FTSH-108-04-F-D](#) [FTSH-113-01-L-D](#) [FTSH-113-01-L-D-EJ-K](#) [FTSH-125-01-F-D-K](#) [FTSH-103-01-F-D](#) [FTSH-105-04-LM-D](#) [FTSH-113-01-F-D](#) [FTSH-113-01-L-D-RA](#) [FTSH-105-02-F-D](#) [FTSH-125-01-F-D-RA](#) [FTSH-128-02-F-D-RA](#) [FTSH-117-01-L-D-RA](#) [FTSH-145-02-F-D-RA](#) [FTSH-104-01-L-D-RA](#) [FTSH-102-01-F-D](#) [FTSH-109-01-F-D-RA](#) [FTSH-103-03-F-D](#) [FTSH-110-04-L-D-RA](#) [FTSH-108-01-L-D-RA](#) [FTSH-106-04-L-D-RA](#) [FTSH-115-01-L-D-RA](#) [FTSH-115-04-L-D](#) [FTSH-120-01-L-D-EJ-K](#) [FTSH-118-01-L-D-RA](#) [FTSH-120-01-L-D-RA](#) [FTSH-124-04-L-D](#) [FTSH-120-02-L-D](#) [FTSH-102-02-F-D](#) [FTSH-102-04-L-D-RA](#) [FTSH-105-02-L-D-RA](#) [FTSH-105-03-L-D](#) [FTSH-110-01-F-D-RA](#) [FTSH-115-01-L-D](#) [FTSH-135-04-L-D-RA](#) [FTSH-103-02-L-D](#) [FTSH-110-01-F-D-007-K](#) [FTSH-109-04-L-D-RA](#) [FTSH-108-01-L-D-K](#) [FTSH-122-02-F-D-RA](#) [FTSH-105-04-F-D](#) [FTSH-107-02-L-D](#) [FTSH-105-01-L-D-RA](#) [FTSH-107-01-L-D-K](#) [FTSH-106-04-L-D](#) [FTSH-110-04-L-D](#) [FTSH-111-01-L-D-RA](#) [FTSH-105-04-F-D-RA](#) [FTSH-118-02-F-D](#) [FTSH-105-01-F-D-007-K](#) [FTSH-125-04-L-D](#) [FTSH-113-01-LM-D-K](#) [FTSH-120-04-L-D](#) [FTSH-124-01-F-D-RA](#) [FTSH-117-04-L-D](#)